



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/960,412	09/24/2001	Noboru Kageyama	32213M015	5634	
7.	590 04/09/2002				
	ell & Russell, LLP		EXAM	EXAMINER	
	Grandi, Weilacher & You	ing	BUDD, MARK OSBORNE		
Intellectual Property Group 1850 M Street, N.W. Suite 800 Washington, DC 20036					
			ART UNIT	PAPER NUMBER	
			2834		
			DATE MAILED: 04/09/2002	DATE MAILED: 04/09/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

-The MAILING DATE of this communication appears on the cover sheet beneath the correspondence address—  Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE	Office Action Summary	Application No.  960417 Kageyama et al				
Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE		M. Budd Group Art Unit 2834				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE						
Extensions of time may be exhalable under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (8) MONTHS from the mailing date of this communication.  If the period for reply specified above, such period shall, by default, expire SIX (8) MONTHS from the mailing date of this communication.  If the period for reply is specified above, such period shall, by default, expire SIX (8) MONTHS from the mailing date of this communication.  If all the provision of the provision o	Period for Reply					
. If the peed for reply specified above is less than thiny (30) days, a reply within the stantory minimum of thinty (30) days will be considered timely.  If No period for reply is specified above is less than thiny (30) days, a reply within the stantory minimum of thinty (30) days, a reply within the set of control period of healt, by default, expire SIX (§) MCNTHS from the malling date of this communication.  Fallum to reply within the set of extended period for reply with, by stants, cause the application to become ABANDORES (SI U.S.C. § 133).  Fallum to reply within the set of extended period for reply with, by stants, cause the application to become ABANDORES (SI U.S.C. § 133).  Fallum to reply within the set of extended period for reply with, by stants, cause the application, and replication.  Fallum to reply within the set of extended period for reply with systants, cause the application, when the malling date of this communication, even if timely, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status  Responsive to communication(s) filled on  Status  Responsive to communication(s) filled on  Status  Responsive to communication is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.  Disposition of Claims  Claim(s)  Claim(s)  Claim(s)  Claim(s)  Claim(s)  Claim(s)  Claim(s)  Responsive to communication(s) filled on  Is/are allowed.  Is/are withdrawn from consideration.  Is/are w	A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.					
Responsive to communication(s) filed on	- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, such period shall, by default, expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication.					
This action is FINAL.     Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 1 1; 453 O.G. 213.    Disposition of Claims	7 4 7 4					
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 1 1; 453 O.G. 213.  Disposition of Claims    Claim(s)	Responsive to communication(s) filed on	<u>'</u>				
Disposition of Claims    Claim(s)	☐ This action is <b>FINAL.</b>					
Ciaim(s)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 1 1; 453 O.G. 213.					
Of the above claim(s) is/are withdrawn from consideration. is/are allowed. is/are allowed. is/are ejected. is/are ejected. is/are objected to. is/are objected to our equirement equirement. The proposed drawing correction, filed on is approved disapproved. It is/are objected to by the Examiner. The oath or declaration is objected to by the Examiner.    The oath or declaration is objected to by the Examiner.    Priority under 35 U.S.C. § 119 (a)-(d)	Disposition of Oleton					
Of the above claim(s) is/are withdrawn from consideration. is/are allowed. is/are allowed. is/are ejected. is/are objected to. Is/are objected to our equirement is/are objected to by the Examiner. The proposed drawing correction, filed on is/are objected to by the Examiner. The oath or declaration is objected to by the Examiner.    The oath or declaration is objected to by the Examiner.    Priority under 35 U.S.C. § 119 (a)-(d)     Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119 (a)-(d).     All   Some* None of the:     Certified copies of the priority documents have been received.     Corpies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a))  **Certified copies not received:     Matachment(s)   Information Disclosure Statement(s), PTO-1449, Paper No(s).   Interview Summary, PTO-413   Notice of Reference(s) Cited, PTO-892   Notice of Informal Patent Application, PTO-152     Notice of Draftsperson's Patent Drawing Review, PTO-948   Other	Claim(s)	is/are pending in the application.				
Claim(s)   I-1, b, 8-16   Je   S   S   S   S   S   S   S   S   S	Of the above claim(s)	is/are withdrawn from consideration.				
Claim(s)   5 , 7 , 17 , 14 , 20   30   30   30   30   30   30   30	- Alt ()					
Claim(s)	Claim(s) 177, 6) 876 600 18	is/are rejected.				
Claim(s)	(XClaim(s) 5, 1, 17, 17, and 20	is/are objected to.				
The proposed drawing correction, filed on is/are objected to by the Examiner   The drawing(s) filed on is/are objected to by the Examiner   The specification is objected to by the Examiner.    The oath or declaration is objected to by the Examiner.    Priority under 35 U.S.C. § 119 (a)-(d)     Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119 (a)-(d).   All   Some*   None of the:   Certified copies of the priority documents have been received.   Certified copies of the priority documents have been received in Application No     Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a))  *Certified copies not received:	□ Claim(s)	are subject to restriction or election				
The drawing(s) filed on is/are objected to by the Examiner     The specification is objected to by the Examiner.     The oath or declaration is objected to by the Examiner.     The oath or declaration is objected to by the Examiner.     Priority under 35 U.S.C. § 119 (a)–(d)     Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119 (a)–(d).     All   Some*   None of the:     Certified copies of the priority documents have been received.     Certified copies of the priority documents have been received in Application No     Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a))     *Certified copies not received:     Notice of participation Disclosure Statement(s), PTO–1449, Paper No(s)   Interview Summary, PTO–413     Notice of Reference(s) Cited, PTO–892   Notice of Informal Patent Application, PTO–152     Notice of Draftsperson's Patent Drawing Review, PTO–948   Other     Office Action Summary	Application Papers requirement					
The specification is objected to by the Examiner.  The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. § 119 (a)–(d)  Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119 (a)–(d).  All   Some*   None of the:  Certified copies of the priority documents have been received.  Certified copies of the priority documents have been received in Application No.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a))  *Certified copies not received:  Information Disclosure Statement(s), PTO–1449, Paper No(s).  Information Disclosure Statement(s), PTO–892  Notice of Reference(s) Cited, PTO–892  Notice of Draftsperson's Patent Drawing Review, PTO–948  Office Action Summary	☐ The drawing(s) filed on					
The oath or declaration is objected to by the Examiner.  Priority under 35 U.S.C. § 119 (a)–(d)  Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119 (a)–(d).  All □ Some* □ None of the:  □ Certified copies of the priority documents have been received.  □ Certified copies of the priority documents have been received in Application No. □ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a))  *Certified copies not received: □ Notice of Priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a))  *Certified copies not received: □ Notice of Informal Patent Application, PTO–152  □ Notice of Praftsperson's Patent Drawing Review, PTO–948 □ Other □ Other □ Office Action Summary						
Priority under 35 U.S.C. § 119 (a)-(d)  Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119 (a)-(d).  All   Some*   None of the:  Certified copies of the priority documents have been received.  Copies of the certified copies of the priority documents have been received in Application No.  Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a))  *Certified copies not received:  Attachment(s)  Information Disclosure Statement(s), PTO-1449, Paper No(s).  Information Disclosure Statement(s), PTO-1449, Paper No(s).  Notice of Reference(s) Cited, PTO-892  Notice of Informal Patent Application, PTO-152  Office Action Summary						
<ul> <li>Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119 (a)–(d).</li> <li>All   Some*   None of the:</li> <li>Certified copies of the priority documents have been received.</li> <li>Copies of the certified copies of the priority documents have been received in Application No</li></ul>						
□ All □ Some* □ None of the:   □ Certified copies of the priority documents have been received.   □ Copies of the priority documents have been received in Application No.   □ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a))   *Certified copies not received:   □ Information Disclosure Statement(s), PTO-1449, Paper No(s). □ Interview Summary, PTO-413   ☒ Notice of Reference(s) Cited, PTO-892 □ Notice of Informal Patent Application, PTO-152   □ Notice of Draftsperson's Patent Drawing Review, PTO-948 □ Other						
<ul> <li>□ Certified copies of the priority documents have been received in Application No.</li> <li>□ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a))</li> <li>*Certified copies not received:</li> <li>△ Attachment(s)</li> <li>□ Information Disclosure Statement(s), PTO-1449, Paper No(s).</li> <li>□ Interview Summary, PTO-413</li> <li>☑ Notice of Reference(s) Cited, PTO-892</li> <li>□ Notice of Informal Patent Application, PTO-152</li> <li>□ Notice of Draftsperson's Patent Drawing Review, PTO-948</li> <li>□ Other</li> </ul>						
<ul> <li>□ Certified copies of the priority documents have been received in Application No.</li> <li>□ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a))</li> <li>*Certified copies not received:</li> <li>Attachment(s)</li> <li>□ Information Disclosure Statement(s), PTO-1449, Paper No(s).</li> <li>□ Interview Summary, PTO-413</li> <li>☑ Notice of Reference(s) Cited, PTO-892</li> <li>□ Notice of Informal Patent Application, PTO-152</li> <li>□ Notice of Draftsperson's Patent Drawing Review, PTO-948</li> <li>□ Other</li> </ul>						
□ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a))  *Certified copies not received:						
*Certified copies not received:  Attachment(s)  □ Information Disclosure Statement(s), PTO-1449, Paper No(s) □ Interview Summary, PTO-413  □ Notice of Reference(s) Cited, PTO-892 □ Notice of Informal Patent Application, PTO-152  □ Notice of Draftsperson's Patent Drawing Review, PTO-948 □ Other	□ Copies of the certified copies of the priority documents have been received					
Attachment(s)  Information Disclosure Statement(s), PTO-1449, Paper No(s) Interview Summary, PTO-413  Notice of Reference(s) Cited, PTO-892	in this national stage application from the International Bureau (PCT Rule 17.2(a))					
□ Information Disclosure Statement(s), PTO-1449, Paper No(s). □ Interview Summary, PTO-413  ▶ Notice of Reference(s) Cited, PTO-892 □ Notice of Informal Patent Application, PTO-152  □ Notice of Draftsperson's Patent Drawing Review, PTO-948 □ Other □ Other	*Certified copies not received:	•				
Notice of Reference(s) Cited, PTO–892 □ Notice of Informal Patent Application, PTO–152 □ Notice of Draftsperson's Patent Drawing Review, PTO–948 □ Other  Office Action Summary	Attachment(s)					
Notice of Reference(s) Cited, PTO–892 □ Notice of Informal Patent Application, PTO–152 □ Notice of Draftsperson's Patent Drawing Review, PTO–948 □ Other  Office Action Summary	☐ Information Disclosure Statement(s), PTO-1449, Paper No(s).	☐ Interview Summary, PTO-413				
□ Notice of Draftsperson's Patent Drawing Review, PTO-948 □ Other  Office Action Summary	▶ Notice of Reference(s) Cited, PTO-892					
Office Action Summary	☐ Notice of Draftsperson's Patent Drawing Review, PTO-948					

U.S. Patent and Trademark Office PTO-326 (Rev. 11/00)

Part of Paper No.

Serial Number: 09/960,412 Page 2

Art Unit: 2834

Claims 8, 9, and 11 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

These claims are vague and indefinite. In claim 8 "said sealing resin" has no antecedent basis. It appears the claim should depend from claim 7 rather than claim 6.

In claim 9, "said multi-layered substrate" has no antecedent basis in parent. Claim 1. IN claim 11, it is not clear what constitutes "terminals for adjustment", adjustment of what?

Because of the afore noted problems one cannot determine the metes and bounds of these claims.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

Claims 1-3, 6/1, 6/2,10,11,12, 18/1 and 18/2 rejected under 35 U.S.C. 102(a) as being anticipated by Japan (741), Japan (918), Knecht (Fig. 2), Hatanaka (Figs. 2, 9, 25 & 27) or Japan (052) (Fig. 1).

Claims 4, 6/4 and 18/4 are rejected under 35 U.S.C. 102() as being anticipated by Knecht, Hatanaka or Japan (741).

Claims 13, 15, 16 and 18/13 are rejected under 35 U.S.C. 102(a) as being anticipated by Hatanaka (Fig. 27) or Japan (052) (combination of figs. 1 and 3).

Serial Number: 09/960,412 Page 3

Art Unit: 2834

Claims 5, 7, 17, 19 and 20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 9 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2<sup>nd</sup> paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Further cited of interest are Fry and Pollard.

Budd/ds

04/05/02

MAHIN DI BUDD PRIMADY EXAMINEI

KRITUNIT 2T